C9550-9

BASIC MARKET SURVEY OF THE

INDUSTRIA PORCINA

AUDIENCE

Geographic Analysis of:

- Pig Production Volume
- Breeding Stock; Purchases; Pregnancy Detectors
- Pig Housing and Equipment
- Pig Feeding Methods
- Pig Health Control Practices, Problems
- Other Information

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INDUSTRIA PORCINA BASIC MARKET SURVEY

Purpose of Survey

The purpose of this survey was to measure - for the first time - markets represented by the INDUSTRIA PORCINA audience in Latin America as a whole, in South America, and in the rest of Latin America.

SURVEY METHOD

Sample Design: Every nth name was computer-drawn from the March 11 1982 INDUSTRIA PORCINA BPA qualified circulation list of Pig/Hog Producers, Pig/Hog Breeders, Feed Manufacturers or Dealers, and Pig/Hog Processors/ Slaughterers. The value of n was such as to cover these lists, and provide some 1,000 names. During the nth name extraction the list was arranged in country number sequence, and alphabetically by state and by post office within each country.

Sample Size:

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Number in mailing sample....	1,000	700	300
Number of usable returns....	500	341	159
Number of unusable returns..	9	8	1
Number of returns.....	509	349	160
Percent response.....	50.9%	49.9%	53.3%

Respondents replied without a tangible incentive, and, instead, furnished their own international airmail postage.

Questionnaire Design: The Spanish language questionnaire - at the back of this report - was designed mainly to obtain the information felt most needed by the INDUSTRIA PORCINA staff. The order, arrangement, and wording of the questions were guided by generally accepted mail survey technique.

Mailing Procedure: Computer-printed control cards containing the survey sample names and other information were numbered consecutively. Each questionnaire mailed was also numbered to match the number assigned the recipient on the control card.

The first mailing went out March 16 1982. About ten days later a post card reminder was sent to each person on the sample list.

A follow-up questionnaire was mailed April 28th to all non-respondents.

Tabulation and Report Writing: The survey returns were computer-tabulated by Analytical Computer Service Inc., Chicago. The Watt Publishing Co. Research Section wrote this report.

INDUSTRIA PORCINA BASIC MARKET SURVEY

HIGHLIGHTS

1. 89% of the INDUSTRIA PORCINA readers each had an average inventory of about 1,497 hogs and/or pigs at survey time (around April 1982), while the 81% who are farrowers had an average of 15 boars and 214 sows per farrower. In 1981 74% of the readers sold an average of about 2,490 finished pigs each. (pages 5 - 8)

2. As opposed to selecting breeding stock from their own herds exclusively, in 1981 33% of all the swine producers bought an average of 57 replacement gilts each. (pages 9, 11)

3. 13% of the farrowers were using artificial insemination to breed sows (ranging from 16% in South America to 7% elsewhere in Latin America); of the 87% who were not doing so, 77% planned to start in 1982, and/or needed more information. (pages 12 - 13)

4. 19% of the swine producers were using a pregnancy-detector device; and of the 81% who were not, 77% planned to buy one in the next two years. (page 14)

5. As many as 62% of the swine producers prepare some or all of their feed on the farm; while only 47% buy any of their feed as complete rations. (page 20)

6. Medication is normally included (1) in the sow feed of as many as 65% of all producers with sows - ranging from 62% in South America to 72% elsewhere in Latin America, and (2) in the young pig rations of 81% of the related producers - ranging from 78% in South America to 89% elsewhere. (page 20)

7. A growth promoter is usually contained in the finishing feed of 60% of the producers who fatten for slaughter. (page 21)

8. Among pig health problems that producers considered important to their business in the preceding twelve months, the seven ranked most often were (1) Enteritis/Diarrhea, ranked by 72% of all producers, (2) Respiratory Infections - 58% of producers, (3) Foot and Leg Troubles - 41%, (4) Reproductive Troubles - 30%, (5) External Parasites - 29%, (6) Swine Dysentery - 27%, and (7) Cannibalism/Vices - 25%. (page 24)

9. Of all the producers, (a) 51% (including producers' herd managers) attended an external pig management training course in 1981, (b) 63% hold degrees or diplomas from agricultural schools, and (c) 4% now use a computerized herd recording system, and an additional 45% plan to use one within two years. (page 30)

INDUSTRIA PORCINA BASIC MARKET SURVEY

DETAILED FINDINGS

1. READERS'* PIG BUSINESS ACTIVITIES

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	487	335	152
Percent of readers reporting:			
Farrow and fatten for slaughter.....	63%	59%	72%
Farrow and sell piglets (weaners)...	26%	28%	22%
(Either or both of above).....	(76%)	(75%)	(79%)
Buy weaned pigs for fattening.....	18%	17%	20%
(Any fattening).....	(74%)	(70%)	(85%)
Produce breeding pigs for sale.....	19%	19%	17%
(Any farrowing).....	(81%)	(80%)	(84%)
(Any farrowing and/or fattening).....	(89%)	(87%)	(94%)
Slaughter and process hogs mainly for sale.....	6%	6%	7%
Manufacture feed mainly for sale....	9%	8%	9%
Other.....	12%	13%	10%
TOTAL.....	153%	150%	157%

*"Readers" refers to that portion of the March 11 1982 Industria Porcina BPA qualified circulation classified as Pig/Hog Producers, Pig/Hog Breeders, Feed Manufacturers or Dealers, and Pig/Hog Processors/Slaughterers. The number in this circulation list - survey universe - was 6,415, geographically broken out approximately as follows: South America - 4,567; and Mexico, Central America, and Caribbean Islands - 1,848.

Industria Porcina Market Survey (cont.)

2. PRODUCERS' PIG PRODUCTION VOLUME

Number Of SOWS In Herd

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	383	260	123
Among producers who have sows, percent reporting:			
1,000 or more sows...	4%	4%	3%
200 - 999 sows.....	24%	24%	25%
100 - 199 sows.....	23%	22%	25%
50 - 99 sows.....	28%	32%	21%
Under 50 sows.....	21%	18%	26%
Average number of sows in the herd at survey time, per producer having any...	214	213	218

Number Of Pigs Marketed PER SOW Per Year

Respondents..	328	218	110
Among producers who have sows, percent reporting:			
20 or more pigs.....	14%	16%	9%
17 - 19 pigs.....	26%	29%	20%
13 - 16 pigs.....	35%	30%	46%
Under 13 pigs.....	25%	25%	25%
Average number of pigs marketed per sow per year, per producer marketing any...	15	16	15

*"Producers" refers to readers who reported at survey time that they feed, fatten, breed, and/or farrow pigs commercially. Producers in the study issue numbered approximately as follows: Combined Areas - 5,735; South America - 3,996; and Mexico, Central America, and Caribbean Islands - 1,739.

2. (cont.)

Number Of BOARS In Herd

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	359	239	120
Among producers who have boars, percent reporting:			
15 or more boars.....	21%	21%	21%
7 - 14 boars.....	23%	24%	20%
4 - 6 boars.....	29%	28%	32%
1 - 3 boars.....	27%	27%	27%
Average number of boars in the herd at survey time, per producer having any...	15	14	16

Total Number Of HOGS And/Or PIGS In Herd

Respondents..	377	250	127
Percent of producers reporting:			
1,500 or more head...	27%	29%	25%
600 - 1,499 head.....	25%	22%	28%
300 - 599 head.....	23%	26%	18%
Under 300 head.....	25%	23%	29%
Average number of hogs and/or pigs in the herd at survey time, per producer.....	1,497	1,498	1,495

2. (cont.)

Number Of WEANED PIGS SOLD In 1981

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	166	120	46
Among producers who farrow and sell piglets, percent reporting:			
800 or more weaned pigs sold....	25%	26%	22%
300 - 799 weaned pigs sold.....	24%	25%	22%
100 - 299 weaned pigs sold.....	25%	25%	26%
Under 100 weaned pigs sold.....	26%	24%	30%
Average number of weaned pigs sold, per producer selling any.....	780	794	744

Number Of FINISHED PIGS SOLD In 1981

Respondents..	345	230	115
Among producers who fatten for slaughter, percent reporting:			
2,000 or more hogs sold.....	28%	27%	30%
800 - 1,999 hogs sold.....	23%	24%	22%
400 - 799 hogs sold.....	22%	21%	24%
Under 400 hogs sold.....	27%	28%	24%
Average number of finished pigs sold, per producer selling any.....	2,490	2,280	2,910

3. "Where do you normally obtain your breeding stock?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	412	281	131
Percent of producers reporting:			
Gilts selected from our own hog herd..	83%	82%	83%
Gilt replacements purchased from breeder.....	33%	34%	32%
Boar replacements purchased from breeder.....	70%	66%	79%
Boars selected from our own hog herd..	21%	24%	15%
Gilts produced from purchased grand-parent stock.....	12%	15%	4%
(Purchased gilts and/or grandparent stock).....	(42%)	(45%)	(34%)
(Purchased any breeding stock).....	(81%)	(79%)	(84%)
Other.....	6%	7%	5%

(a) "If you purchase replacement breeding stock, from what source(s)?"

Respondents..	375	259	116
Among producers who purchase breeding stock, percent reporting:			
From company or producer that sells . . .			
Purebred stock.....	70%	69%	73%
Hybrid stock.....	27%	26%	30%
Crossbred stock.....	29%	29%	28%
Other.....	2%	2%	2%

4. "What are your two most important considerations when you buy a gilt or boar?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	414	283	131
Among producers who buy gilts or boars, percent reporting:			
Conformation.....	54%	58%	47%
Disease "free" (Specific Pathogen Free).....	52%	52%	53%
Environment boar was raised in.....	16%	18%	12%
Herd productivity.....	49%	51%	46%
Individual test performance records..	45%	48%	40%
Price.....	13%	12%	15%
Reputation of supplier.....	26%	24%	31%
Follow up technical service.....	7%	9%	5%
Other.....	4%	4%	5%

5. "About how many, if any, gilts and/or boars did you buy in 1981?"

Gilts	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	188	123	65
Among producers who bought gilts in 1981, percent reporting:			
40 or more gilts.....	28%	28%	29%
20 - 39 gilts.....	30%	30%	31%
10 - 19 gilts.....	24%	23%	25%
1 - 9 gilts.....	18%	19%	15%
Average number of gilts bought in 1981, per producer buying any.....	57	56	60

Boars			
Respondents..	309	203	106
Among producers who bought boars in 1981, percent reporting:			
6 or more boars.....	22%	19%	27%
3 - 5 boars.....	32%	30%	36%
2 boars.....	26%	27%	26%
1 boar.....	20%	24%	11%
Average number of boars bought in 1981, per producer buying any.....	7	7	7

Industria Porcina Market Survey (cont.)

6. "Do you use artificial insemination to breed sows?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	400	272	128
Percent of farrowers answering:			
Yes...	13%	16%	7%
No....	87%	84%	93%
(a) "If "Yes' . . .			
(1) What is the source of the semen?"			
Respondents..	54	44	10*
Among producers who use artificial insemination, percent reporting:			
Purchased fresh.....	15%	18%	-
Purchased frozen.....	48%	57%	10%
(Either or both of above)	(57%)	(63%)	(10%)
From our own boars.....	57%	50%	90%
Other.....	-	-	-
(2) "Who performs the insemination?"			
Respondents..	51	42	9**
Among producers who use artificial insemination, percent reporting:			
Myself or herdsman.....	45%	48%	33%
Professional inseminator	59%	60%	56%
Other.....	4%	2%	11%

*Percentages of this base should be viewed with more than usual caution.

**Percentages of this base are not projectable.

6. (cont.)

(b) "If you do not use AI to breed sows, which of the following statements are true?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	312	204	108
Among producers who do not use artificial insemination, percent reporting:			
We plan to start in 1982.....	13%	14%	12%
We feel benefits of AI are not worth the effort.....	15%	18%	10%
Need more information.....	71%	69%	74%
(Plan to start and/or need more information).....	(77%)	(76%)	(80%)
Other.....	12%	11%	14%

7. "Are you using any chemical product to regulate estrus in sows?"

Respondents..	393	268	125
Percent of producers answering:			
Yes....	17%	15%	21%
No.....	83%	85%	79%

8. "Do you use a sow pregnancy-detector device?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	406	269	137
Percent of producers answering:			
Yes...	19%	20%	18%
No....	81%	80%	82%

(a) "If 'No,' do you plan to buy one in the next two years?"

Respondents..	296	199	97
Among producers who do not use a sow pregnancy-detector device, percent answering "Yes"	77%	79%	73%

9. TYPE OF HOUSING USED FOR PREGNANT SOWS

Respondents..	414	282	132
Percent of producers reporting:			
Individual tie-up stalls.....	9%	12%	5%
Individual stalls without ties...	32%	32%	32%
(Any individual stalls).....	(40%)	(43%)	(35%)
Indoor group pens or yards.....	51%	48%	58%
Outdoor group pens or yards.....	21%	22%	20%
(Any group pens or yards).....	(69%)	(67%)	(73%)
Other.....	3%	2%	4%

10. "What type(s) of housing do you use for farrowing sows?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	413	280	133
Percent of producers reporting:			
Tie-up crates and/or stalls.....	13%	13%	13%
Crates and/or stalls without ties...	50%	50%	52%
(Any crates and/or stalls).....	(62%)	(62%)	(64%)
Pens with single rail or barrier....	30%	31%	29%
(Any of above).....	(91%)	(91%)	(91%)
Outdoor huts.....	7%	8%	4%
Other.....	4%	3%	7%

11. "At about what age do you wean litters?"

Respondents..	409	277	132
Percent of producers reporting:			
1 week or younger....	-	-	-
2 weeks.....	2%	2%	2%
3 weeks.....	7%	5%	10%
4 weeks.....	24%	24%	25%
5 weeks.....	25%	24%	26%
6 weeks.....	27%	26%	29%
7 weeks or older.....	21%	24%	15%

12. "If you house any of your swine in a building, what type(s) of floor(s) do you use?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	431	287	144
Among producers who house swine in a building, percent reporting:			
Totally slatted floors.....	6%	5%	10%
Partially slatted floors....	22%	24%	19%
(Any slatted floors).....	(27%)	(27%)	(28%)
Totally solid floors.....	77%	75%	80%
Other.....	9%	8%	10%

(a) "What type(s) of slats or flooring material do you use in your swine building(s)?"

Respondents..	355	237	118
Among producers who house swine in a building, percent reporting:			
Aluminum.....	3%	3%	2%
Concrete.....	85%	87%	80%
Fiberglass.....	*	*	-
Plastic.....	1%	-	2%
Stainless steel.....	1%	1%	3%
Steel, other than stainless..	9%	5%	16%
Wood.....	11%	12%	8%
Wire mesh.....	6%	6%	4%
Woven wire.....	3%	3%	2%
Expanded metal.....	1%	-	3%
Plastic-coated wire.....	*	*	-
Plastic-coated expanded metal	1%	-	2%
Other.....	5%	5%	7%

*Less than 0.5%.

13. "What type(s) of heating do you use in farrowing and/or rearing areas?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	383	262	121
Percent of producers reporting:			
Gas heaters.....	15%	17%	10%
Electrical/infra-red lamps....	70%	68%	73%
In-floor heating.....	2%	3%	2%
Hot-water radiators.....	1%	*	1%
Whole-house heating.....	3%	3%	3%
Other.....	17%	17%	18%

*Less than 0.5%.

14. "What type(s) of waterer(s) do you use in farrowing and/or rearing areas?"

Respondents..	429	289	140
Percent of producers reporting:			
Bowls.....	36%	32%	46%
Nipples/nozzles.....	29%	32%	23%
Snout-operated nipples...	39%	40%	37%
Other.....	8%	10%	4%

15. "Do you feed dry feed, or wet feed, to your swine?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	446	299	147
Percent of producers reporting:			
Dry feed only.....	69%	65%	75%
Wet feed only.....	4%	5%	4%
Both dry and wet feeds.....	27%	30%	21%

(a) "If you feed wet feed, to which swine?"

Respondents..	150	105	45
Among producers who feed wet feed, percent reporting:			
Sows.....	55%	51%	62%
Weaned pigs.....	15%	13%	20%
Growing pigs.....	27%	30%	20%
Finishing pigs...	49%	54%	36%
Other.....	10%	9%	13%

16. "If you have any sows, young pigs, and/or finishing pigs, how is the feed supplied to them?"

Sows	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	405	274	131
Among producers who have sows, percent reporting:			
Manually (by hand).....	87%	85%	89%
Semi-automatically (mechanically but requiring some manual filling)....	14%	14%	15%
Fully automatically (requiring no manual filling).....	2%	3%	-
Young Pigs			
Respondents..	405	276	129
Among producers who have young pigs, percent reporting:			
Manually (by hand).....	79%	80%	78%
Semi-automatically (mechanically but requiring some manual filling)....	20%	18%	25%
Fully automatically (requiring no manual filling).....	2%	3%	1%
Finishing Pigs			
Respondents..	413	279	134
Among producers who have finishing pigs, percent reporting:			
Manually (by hand).....	72%	73%	72%
Semi-automatically (mechanically but requiring some manual filling)....	24%	24%	25%
Fully automatically (requiring no manual filling).....	5%	5%	5%

17. "What is the source of the feed?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	453	306	147
Percent of producers reporting:			
Prepared on the farm.....	62%	63%	61%
Purchased as complete rations...	47%	43%	54%
Other.....	10%	10%	10%

18. "If feed is purchased, how is it delivered?"

Respondents..	275	183	92
Among producers who purchase feed, percent reporting:			
In bags only.....	68%	65%	73%
In bulk only.....	9%	10%	7%
Some in bags, some in bulk.	23%	25%	20%

19. "If you have sows and/or young pigs, do their feed rations normally contain medication?"

Sows	Respondents..	376	257	119
Among producers who have sows, percent answering:				
	Yes...	65%	62%	72%
	No....	35%	38%	28%
Young Pigs	Respondents..	404	272	132
Among producers who have young pigs, percent answering:				
	Yes...	81%	78%	89%
	No....	19%	22%	11%

20. "If you fatten for slaughter, does the finishing feed usually contain a growth promoter?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	401	266	135
Among producers who fatten for slaughter, percent answering:			
Yes...	60%	57%	65%
No....	40%	43%	35%

21. "Do you make use of water medication?"

Respondents..	432	291	141
Percent of producers answering "Yes"..	31%	28%	38%

22. "If you farrow, at about what age do you start creep feeding?"

Respondents..	306	207	99
Percent of farrowers reporting:			
1st week.....	19%	18%	22%
2nd week.....	46%	47%	43%
3rd week.....	21%	21%	21%
At weaning.....	10%	11%	9%
Other.....	4%	3%	5%

23. "Do you routinely provide an iron supplement to your pigs and/or hogs?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	426	284	142
Percent of producers answering "Yes"..	87%	88%	85%
(a) "If 'yes,' in what form(s)?"			
Respondents..	376	253	123
Among producers who routinely provide iron supplement, percent reporting:			
Injectable shots.....	90%	90%	91%
In feed.....	12%	11%	13%
Oral doser type.....	3%	3%	4%
Oral type placed in pen.....	3%	2%	4%
Other.....	1%	-	2%
(b) "If you routinely provide an iron supplement in the form of injectable shots, at what dosage level(s)?"			
Respondents..	309	212	97
Among producers who routinely provide iron supplement in the form of injectable shots, percent reporting:			
Over 200 milligrams...	5%	5%	4%
200 milligrams.....	41%	41%	41%
100 milligrams.....	32%	34%	27%
1 - 99 milligrams.....	14%	12%	19%
Other level(s).....	11%	10%	12%

24. "Do you give a wormer to your pigs periodically for worm prevention or do you only treat them when they are known to be worm-infested?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	446	300	146
Percent of producers reporting:			
Worm periodically for prevention....	84%	83%	86%
Treat known infestations only.....	12%	12%	12%
Do no worming.....	4%	5%	2%

(a) "If you 'worm periodically for prevention,' what species of worms do you routinely medicate against?"

Respondents..	400	269	131
Among producers who worm periodically for prevention, percent reporting:			
Round worms (Ascaris).....	75%	77%	71%
Nodular worms (Oesophagostomum).....	24%	29%	15%
Stomach worms (Hyostrongylus).....	57%	53%	64%
Whipworms (Trichuris).....	27%	28%	26%
Lungworms (Metastrongylus).	34%	33%	34%
Other.....	5%	5%	4%

25. RANKING OF PIG HEALTH PROBLEMS IMPORTANT TO PRODUCERS IN PRECEDING TWELVE MONTHS: COMBINED AREAS

Percent of (320 answering) producers reporting:	RANK 1	2	3	4	5	6	7	8	9	10	11	12	13	Any Rank
Aujeszky's/pseudorabies	*	1%	1%	-	-	-	-	-	1%	-	1%	1%	-	5%
Cannibalism/vices.....	4%	6%	3%	4%	2%	1%	2%	1%	1%	*	1%	*	-	25%
Coccidiosis.....	2%	1%	1%	-	1%	1%	2%	1%	1%	*	-	-	-	10%
Enteritis/diarrhea.....	47%	15%	4%	4%	1%	-	*	-	-	-	-	1%	-	72%
Foot and leg troubles..	8%	9%	9%	5%	3%	2%	1%	1%	1%	1%	*	-	*	41%
Mastitis syndrome (MMA)	3%	6%	5%	3%	2%	1%	1%	-	1%	1%	-	*	-	23%
External parasites.....	5%	7%	4%	3%	4%	1%	1%	2%	1%	*	*	-	-	29%
Reproductive troubles..	4%	7%	4%	6%	3%	3%	1%	1%	*	1%	-	-	-	30%
Respiratory infections.	15%	20%	12%	6%	3%	1%	1%	*	-	-	-	-	-	58%
Stress/PSE.....	1%	3%	3%	3%	2%	2%	*	1%	*	1%	*	-	-	17%
Swine dysentery.....	5%	9%	4%	3%	1%	3%	1%	*	*	-	-	-	-	27%
Swine fever/hog cholera	5%	3%	2%	1%	*	1%	1%	1%	-	*	*	*	-	16%
Other.....	2%	2%	1%	*	-	-	-	*	-	-	-	-	-	6%

None ... 0%

*Less than 0.5%.

25. RANKING OF PIG HEALTH PROBLEMS IMPORTANT TO PRODUCERS IN PRECEDING TWELVE MONTHS: SOUTH AMERICA

Percent of (216 answering) producers reporting:	RANK 1	2	3	4	5	6	7	8	9	10	11	12	13	Any Rank
Aujeszky's/pseudorabies	-	*	*	-	-	-	-	-	-	-	*	*	-	2%
Cannibalism/vices.....	5%	7%	2%	3%	2%	1%	1%	1%	*	-	*	-	-	23%
Coccidiosis.....	2%	1%	2%	-	1%	*	1%	-	*	*	-	-	-	8%
Enteritis/diarrhea.....	51%	12%	5%	3%	1%	-	-	-	-	-	-	*	-	72%
Foot and leg troubles..	7%	11%	7%	5%	2%	1%	1%	1%	*	-	*	-	*	36%
Mastitis syndrome (MMA)	2%	7%	3%	2%	1%	1%	*	-	1%	*	-	*	-	18%
External parasites.....	6%	7%	4%	4%	1%	-	*	2%	1%	-	-	-	-	25%
Reproductive troubles..	4%	9%	3%	5%	1%	2%	*	*	-	1%	-	-	-	26%
Respiratory infections.	14%	19%	12%	4%	1%	1%	1%	*	-	-	-	-	-	52%
Stress/PSE.....	1%	2%	3%	3%	2%	1%	-	-	-	-	-	-	-	12%
Swine dysentery.....	3%	8%	2%	1%	*	2%	*	-	*	-	-	-	-	17%
Swine fever/hog cholera	4%	2%	1%	*	*	-	1%	*	-	*	-	-	-	10%
Other.....	1%	2%	1%	-	-	-	-	*	-	-	-	-	-	4%

None ... 0%

*Less than 0.5%.

25. RANKING OF PIG HEALTH PROBLEMS IMPORTANT TO PRODUCERS IN PRECEDING TWELVE MONTHS: MEXICO, CENTRAL AMERICA, & CARIBBEAN ISLANDS

Percent of (104 answering) producers reporting:	RANK 1	2	3	4	5	6	7	8	9	10	11	12	13	Any Rank
Aujeszky's/pseudorabies	1%	2%	2%	-	-	-	-	-	2%	-	1%	2%	-	10%
Cannibalism/vices.....	2%	3%	5%	6%	1%	-	2%	2%	1%	1%	1%	1%	-	25%
Coccidiosis.....	-	-	-	-	1%	1%	4%	3%	1%	-	-	-	-	10%
Enteritis/diarrhea.....	38%	22%	4%	6%	-	-	1%	-	-	-	-	1%	-	72%
Foot and leg troubles..	9%	6%	12%	6%	5%	4%	2%	1%	2%	2%	-	-	-	49%
Mastitis syndrome (MMA)	5%	5%	11%	4%	4%	1%	2%	-	1%	1%	-	-	-	34%
External parasites.....	5%	7%	3%	3%	9%	3%	2%	2%	-	1%	1%	-	-	36%
Reproductive troubles..	4%	3%	6%	8%	7%	5%	1%	1%	1%	-	-	-	-	36%
Respiratory infections.	19%	22%	13%	10%	6%	2%	1%	-	-	-	-	-	-	73%
Stress/PSE.....	-	4%	4%	2%	1%	4%	1%	3%	1%	2%	1%	-	-	23%
Swine dysentery.....	8%	12%	9%	7%	3%	3%	1%	1%	-	-	-	-	-	44%
Swine fever/hog cholera	7%	4%	3%	3%	-	2%	-	1%	-	-	1%	1%	-	22%
Other.....	2%	1%	1%	1%	-	-	-	-	-	-	-	-	-	5%

None ... 0%

*Less than 0.5%.

26. "Against which of the following swine health problems are vaccines available in your country, and which problem(s) do you try to control with a regular vaccination program?"

Vaccines Available

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	401	277	124
Percent of producers reporting:			
Atrophic Rhinitis	33%	24%	54%
E. Coli	35%	28%	49%
Erysipelas	39%	26%	66%
Haemophilus	9%	5%	16%
Leptospirosis	39%	37%	43%
Mycoplasmal Pneumonia	23%	19%	32%
Parvovirus	9%	8%	10%
Swine fever	79%	85%	65%
Transmissible Gastroenteritis (TGE)	23%	17%	35%

We Vaccinate Against

Percent of producers reporting:			
Atrophic Rhinitis	11%	6%	23%
E. Coli	18%	13%	28%
Erysipelas	20%	13%	36%
Haemophilus	2%	1%	5%
Leptospirosis	15%	15%	16%
Mycoplasmal Pneumonia	12%	10%	17%
Parvovirus	2%	1%	3%
Swine fever	71%	77%	58%
Transmissible Gastroenteritis (TGE)	11%	10%	12%

(a) "Where do you buy your vaccines?"

Respondents..	430	292	138
Percent of producers reporting:			
From international biological company	44%	40%	53%
From national biological company	54%	57%	49%
From veterinarian	22%	21%	26%
Make our own	1%	1%	2%
Do not use any	2%	1%	4%
Other	2%	3%	1%

27. "Who decided on the type and specific brand of health products that were bought for your swine in 1981?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	445	302	143
Percent of producers reporting:			
Swine owner.....	41%	42%	38%
Farm manager.....	12%	13%	10%
Veterinarian.....	69%	69%	69%
Other.....	3%	4%	3%
Did not use any.....	1%	*	3%

*Less than 0.5%.

28. "Which of the following pig housing environmental items do you use?"

Respondents..	429	290	139
Percent of producers reporting:			
Water sprinklers for cooling.....	25%	24%	26%
Power ventilation/fans.....	10%	9%	14%
Heat saving and recycling system....	2%	3%	1%
Evaporative coolers.....	2%	1%	2%
Fly control products.....	54%	58%	45%
None of above.....	33%	31%	39%

29. SELECTED EQUIPMENT PRODUCERS HAVE

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	432	292	140
Percent of producers reporting:			
Stand-by electric generator.....	33%	36%	26%
Power failure alarm.....	5%	5%	4%
Fire alarm.....	2%	3%	-
Incinerator.....	19%	21%	14%
Hydraulic livestock trailer.....	2%	2%	3%
Front end loader.....	8%	9%	8%
Skid steer loader.....	4%	5%	2%
Manure spreader, conveyor type.....	4%	5%	3%
Manure spreader, tank type, open or closed.....	13%	18%	1%
Manure pump, liquid.....	20%	23%	13%
Electric fence.....	13%	16%	7%
(Any of above).....	(61%)	(66%)	(49%)

30. "Which of the following of your pig business items - or any portion of them - were produced outside of your own country?"

Respondents..	409	272	137
Percent of producers reporting:			
Pig housing.....	4%	6%	1%
Equipment.....	22%	24%	19%
Breeding pigs.....	23%	26%	18%
Health products.....	30%	32%	26%
Feed - complete diets or concentrates.....	5%	6%	4%
None of above.....	46%	40%	57%
(Any of listed items).....	(54%)	(60%)	(43%)

31. "Did you or your herd manager/herdsman attend any external pig management training courses in 1981?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	445	296	149
Percent of producers answering "Yes"..	51%	57%	39%

32. "Do you hold any degrees or diplomas from an agricultural school?"

Respondents..	449	303	146
Percent of producers answering "Yes"..	63%	69%	53%

33. "Do you now use, or plan to use in the next two years, a computerized herd recording system?"

Respondents..	421	283	138
Percent of producers reporting:			
Now use.....	4%	3%	4%
Plan to use within two years..	45%	44%	47%
Neither use, nor plan to.....	38%	39%	36%
Other.....	15%	16%	15%

34. "Do you, or your company, grind and mix feed?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	433	289	144
Percent of readers answering "Yes"....	70%	71%	69%

"If 'Yes' . . ."

(a) "Is your feed mill stationary, or portable?"

Respondents..	317	213	104
Among readers who grind and mix feed, percent reporting:			
Portable.....	10%	9%	11%
Stationary - on the farm...	62%	65%	58%
Stationary - large central mill.....	29%	27%	32%

(b) "About how much feed is ground and mixed on this place each week?"

Respondents..	272	185	87
Among readers who grind and mix feed, percent reporting:			
100,000 or more kilograms*.	11%	12%	9%
20,000 - 99,999 kilograms..	19%	18%	22%
10,000 - 19,999 kilograms..	24%	23%	25%
4,000 - 9,999 kilograms....	22%	25%	16%
Under 4,000 kilograms.....	24%	22%	28%
Average number of kilograms of feed ground and mixed each week, per reader grinding and mixing any.....	24,000	23,900	24,350

*2.2046 pounds per kilogram.

34. (cont.)

(c) "Which of the following equipment do you use in making feed?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	315	214	101
Among readers who grind and mix feed, percent reporting:			
Grain dryer.....	11%	13%	9%
Hammermill.....	87%	86%	89%
Roller mill.....	10%	12%	6%
Pellet mill.....	9%	8%	12%
Premixer.....	32%	32%	33%
Vertical batch mixer.....	49%	43%	61%
Continuous batch mixer.....	17%	16%	19%
Molasses blender.....	19%	18%	23%

(d) "What type(s) of feed does your mill make?"

Respondents..	314	212	102
Among readers who grind and mix feed, percent reporting:			
Swine feed.....	99%	99%	100%
Cattle feed.....	29%	30%	27%
Poultry feed.....	35%	40%	26%
Other.....	8%	9%	5%

35. "If you or your firm operate a slaughtering plant . . ."

(a) "How many head of swine can your plant process in eight hours?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	17*	15*	2**
Among readers whose firms operate slaughtering plants, percent reporting:			
1,000 or more head...	18%	20%	-
600 - 999 head.....	18%	20%	-
100 - 599 head.....	35%	33%	50%
Less than 100 head...	29%	27%	50%
Average number of head of swine that readers' slaughtering plants can process in eight hours, per reader plant.....	509	544	242

*Percentages and average of this base should be viewed with more than usual caution.

**Percentages and averages of this base are not projectable.

35. (cont.)

(b) "Which of the following pork products are prepared in your swine slaughtering plant?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	41	26	15*
Among readers whose firms operate slaughtering plants, percent reporting:			
Swine carcasses.....	61%	62%	60%
Bacon.....	41%	46%	33%
Smoked hams.....	46%	54%	33%
Chicharron.....	37%	35%	40%
Luncheon meats.....	51%	54%	40%
Sausage.....	54%	58%	40%
Frankfurters.....	46%	54%	33%
Other			
Written in:			
Salami.....	5%	4%	7%
Headcheese.....	4%	4%	4%
Custom processing only	4%	4%	4%
Not specified.....	17%	23%	7%

*Percentages of this base should be viewed with more than usual caution.

35. (cont.)

(c) "Which of the following equipment does your swine slaughtering plant have?"

	Combined Areas	South America	Mexico, Central America & Caribbean Islands
Respondents..	52	30	22
Among readers whose firms operate a slaughtering plant, percent reporting:			
Scalder	37%	43%	27%
Automatic eviscerator	8%	13%	-
Skin puller	23%	33%	9%
Meat/bone separator	10%	17%	-
Grinder/chopper	38%	50%	23%
Smokehouse	33%	47%	14%
Oven	38%	47%	27%
Brining vat	35%	47%	18%
Brine injector	33%	43%	18%
Mixer/blender	29%	37%	18%
Pressure cooker	27%	33%	18%
Deep fat fryer	19%	23%	14%
Filling equipment	33%	43%	18%
Chiller	38%	47%	27%
Freezer	40%	50%	27%
Ice making machine	21%	33%	5%
(Any of above)	(60%)	(67%)	(50%)

GUIA DEL EDITOR

Información Confidencial para ayudar a mejorar INDUSTRIA PORCINA

La información confidencial que Ud. da aquí es mucho muy importante para mí para hacer que las próximas ediciones de INDUSTRIA PORCINA sean más útiles para Ud.

Robert Thaler, Editor

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Empiece aquí

1. Por favor indique (✓) cada uno de sus negocios porcinos.

(5)—1 ☐ Partos y ceba para el sacrificio
2 ☐ Partos y venta de lechones (destetados)
3 ☐ Compro cerditos destetados para cebar
4 ☐ Crianza de cerdos reproductores para la venta
5 ☐ Sacrificio y procesamiento de cerdos principalmente para la venta
6 ☐ Fabricante de alimentos principalmente para la venta
7 ☐ Otro (por favor especifique)

_____

8 ☐ Ninguno

Ud. no alimenta, ceba ni cría cerdos comercialmente—ya sea para la producción de carne o para la cría—por favor pasese a la pregunta 34.

2. Si Ud. es porcicultor, por favor indique abajo el tamaño de su negocio.

Cuántas **cerdas,** si acaso tiene, en su ganado en el presente ..... _____ (6—9) número

Cuántos cerdos **por cerda** por año para el mercado ..... _____ (10—11) número

Cuántos **verracos,** si acaso tiene, en su ganado en el presente ..... _____ (12—14) número

Cuántos puercos, en total, tiene en su ganado en el presente ..... _____ (15—19) número

Cuántos **cerditos,** si acaso, **vendió** en 1981 ..... _____ (20—24) número

Cuántos **cerdos cebados vendió** en 1981 ..... _____ (25—29) número

3. De donde obtiene, por lo regular, su ganado de cría? (por favor marque todo lo que corresponda)

(30)—1 ☐ Primerizas seleccionadas de nuestro propio ganado
2 ☐ Primerizas reemplazantes se compran de criaderos
3 ☐ Verracos reemplazantes se compran de criaderos
4 ☐ Verracos seleccionados de nuestro propio ganado
5 ☐ Primerizas descendientes producidas del ganado abuelo comprado
6 ☐ Otro (por favor especifique)

_____

(a) Si compra Ud. su ganado de cría reemplazante, de donde? (por favor marque todo lo que corresponda)
De compañías o porcicultores que venden . . .

(31)—1 ☐ Ganado de raza pura
2 ☐ Ganado híbrido
3 ☐ Ganado de raza cruzada
4 ☐ Otro (por favor especifique)

_____

4. Cuáles son las dos razones más importantes cuando compra una primeriza o verraco? (por favor indique)

(32)—1 ☐ Conformación
2 ☐ Libres de enfermedades (Libres de Patógenos Específicos)
3 ☐ Ambiente en el cual el verraco se crió
4 ☐ Productividad del ganado
5 ☐ Registros de pruebas individuales de rendimiento
6 ☐ Precio
7 ☐ Reputación del surtidor
8 ☐ Servicio técnico que le sigue
9 ☐ Otro (por favor especifique)

_____

5. Cuántos verracos y/o primerizas, si acaso, compró en 1981?

Primerizas _____ (33—36) número Verracos _____ (37—39) número

6. Usa Ud. la inseminación artificial para servir a las cerdas? (40)—1 ☐ Si 2 ☐ No

(a) Si contesta "si" . . .
(1.) De dónde obtiene el semen? (por favor indique)

(41)—1 ☐ Compro fresco
2 ☐ Compro congelado
3 ☐ De nuestros propios verracos
4 ☐ Otro

(2.) Quién administra la inseminación? (por favor indique)

(42)—1 ☐ Yo o el porquero
2 ☐ Inseminador profesional
3 ☐ Otro

(b) Si *no* practica la inseminación artificial en las cerdas, cuáles de las siguientes declaraciones son ciertas? (por favor indique)

(43)—1 ☐ Planeamos empezar en 1982
2 ☐ Pensamos que no vale la pena practicar la inseminación artificial
3 ☐ Necesitamos más información
4 ☐ Otro

7. Está usando algún producto químico para regular el estro de las cerdas?

(44)—1 ☐ Si 2 ☐ No

Volte a la página 2

8. Usa Ud. un aparato para detectar la preñez?
(45)—1 ☐ Si 2 ☐ No

(a) Si contesta "no", piensa Ud. comprar uno en los próximos dos años?
(46)—1 ☐ Si 2 ☐ No

9. Por favor indique que tipo de edificio usa para las cerdas gestantes.
(47)—1 ☐ Cochiqueras para atar individualmente
2 ☐ Cochiqueras individuales sin ataduras
3 ☐ Corraletas agrupados bajo techo
4 ☐ Corrales agrupados al aire libre
5 ☐ Otro

_____

10. Qué tipo de edificios usa para parir las cerdas? (por favor indique)
(48)—1 ☐ Cochiqueras o jaulas con ataduras
2 ☐ Cochiqueras o jaulas sin ataduras
3 ☐ Cochiqueras con barra sencilla o barrera
4 ☐ Tejados al aire libre
5 ☐ Otro

_____

11. De que edad desteta las camadas? (por favor indique)
(49)—1 ☐ 1 semana o antes
2 ☐ 2 semanas
3 ☐ 3 semanas
4 ☐ 4 semanas
5 ☐ 5 semanas
6 ☐ 6 semanas
7 ☐ 7 semanas o más

12. Si Ud. tiene algunos de sus cerdos en edificios, qué clase de pisos tienen? (por favor indique)
(50)—1 ☐ Pisos totalmente de rejillas
2 ☐ Pisos parcialmente de rejillas
3 ☐ Pisos completamente sólidos
4 ☐ Otro (por favor especifique)

_____

(a) Qué clase de rejillas o material usa en los pisos de sus edificios?
(51)—1 ☐ Aluminio
2 ☐ Concreto
3 ☐ Fibra de vidrio
4 ☐ Plástico
5 ☐ Acero inoxidable
6 ☐ Acero, otro que no sea inoxidable
(52)—1 ☐ Madera
2 ☐ Malla de alambre
3 ☐ Alambre tejido
4 ☐ Metal desplegado
5 ☐ Alambre recubierto con plástico
6 ☐ Metal desplegado recubierto con plástico
7 ☐ Otro (por favor especifique)

_____

MARQUE sus respuestas

13. Qué clase de calefacción usa en los planteles de partos y/o de crianza? (por favor indique)
(53)—1 ☐ Calentadores de gas
2 ☐ Lamparas eléctricas infrarrojas
3 ☐ Calefacción en el piso
4 ☐ Radiadores de agua caliente
5 ☐ Calefacción en todo el edificio
6 ☐ Otro _____

14. Qué clase de bebederos usa en los planteles de partos y/o de crianza? (por favor indique)
(54)—1 ☐ Tazones
2 ☐ Pezón/Boquilla
3 ☐ Pezón activado por la trompa
4 ☐ Otro _____

15. Da Ud. alimento seco o humedecido a sus cerdos? (por favor indique)
(55)—1 ☐ Alimento seco únicamente
2 ☐ Alimento humedecido únicamente
3 ☐ Alimento seco y humedecido

(a) Si da Ud. alimento humedecido, a cuáles cerdos? (por favor indique)
(56)—1 ☐ Cerdas
2 ☐ Cerdos destetados
3 ☐ Cerdos en crecimiento
4 ☐ Cerdos de engorda
5 ☐ Otros _____

16. Si tiene Ud. cerdas, cerditos y/o cerdos de engorda, cómo les llega el alimento? (por favor indique todo lo que corresponda)

	Cerdas	Cerditos	Cerdos de engorda
Manualmente	(57) ☐	(58) ☐	(59) ☐
Semi-automáticamente (mecánicamente pero que requiere trabajo manual)	☐	☐	☐
Completamente automático (no requiere trabajo manual) ...	☐	☐	☐

17. De dónde se surte del alimento? (por favor indique)
(60)—1 ☐ Se prepara en la granja
2 ☐ Se compra el producto terminado
3 ☐ Otro

_____

18. Si compra el alimento, cómo se lo entregan? (por favor indique)
(61)—1 ☐ En bolsas solamente
2 ☐ Suelto solamente
3 ☐ Parte en bolsas y parte suelto

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o en más de los espacios

19. Si tiene cerdas y/o cerditos, contienen medicamento las raciones alimenticias? (por favor indique)

	Cerdas	Cerditos
Si	☐	☐
No ...	☐	☐

20. Si Ud. ceba para el sacrificio, contiene el alimento un promovedor para el crecimiento?

☐ Si ☐ No

21. Usa el agua medicinada? ☐ Si ☐ No

22. Si su negocio es de partos, a qué edad los empieza con ración suplementaria? (por favor indique)

- ☐ primera semana
- ☐ segunda semana
- ☐ tercera semana
- ☐ al destetarlos
- ☐ Otra

_____

23. Da Ud. a sus cerdos un suplemento de **hierro** con regularidad?

☐ Si ☐ No

(a) Si contesta "si", en qué forma? (por favor indique)

- ☐ Inyecciones
- ☐ En el alimento
- ☐ Dósis tipo oral
- ☐ Tipo oral puesto en las cochiqueras
- ☐ Otro (por favor especifique) _____

(b) Si con regularidad les da el suplemento de hierro en forma de inyecciones, cuál es la dósis? (por favor indique)

- ☐ Más de 200 miligramos
- ☐ 200 miligramos
- ☐ 100 miligramos
- ☐ De 1 a 99 miligramos
- ☐ Otra dósis (por favor especifique) _____

24. Da Ud. a sus cerdos, periódicamente, medicamento para la **prevención** contra las lombrices o solamente cuando **sabe** que están infestados con lombrices? (por favor marque uno)

- ☐ Periódicamente para la prevención de lombrices
- ☐ Solamente cuando están infestados de lombrices
- ☐ Nada

(a) Si les da medicamento para la prevencion de lombrices (verminosis), que especies de lombrices son las que ataca? (por favor indique)

- ☐ Lombrices redondes (Ascaris)
- ☐ Lombrices nodulares (Oesophagostomum)
- ☐ Lombrices intestinales (Hyostrongylus)
- ☐ Lombrices largas (Trichuris)
- ☐ Lombriz pulmonar (Metastrongylus)
- ☐ Otra _____

25. Cuáles fueron los problemas de salud porcina de mayor importancia en su negocio en los últimos doce meses? Por favor indique con el número uno a la izquierda de la enfermedad más seria y con el "2" la que le sigue y así sucesivamente.

- _____ Aujeszky/pseudorrabia
- _____ Canibalismo/vicioso
- _____ Coccidiosis
- _____ Enteritis/diarrea
- _____ Problemas de patas
- _____ Síndrome de mastitis
- _____ Parásitos externos
- _____ Problemas de reproducción
- _____ Infecciones respiratorias
- _____ Tensión (stress) PSE
- _____ Disentería porcina
- _____ Fiebre porcina/cólera
- _____ Otras _____
- ☐ Ninguna

26. Para cuáles enfermedades porcinas hay **vacunas disponibles** en su país y qué problema (s) trata Ud. de controlar con un programa regular de vacunación?

	Vacuna (s) Disponibles	Vacunamos contra
Rinitis atrófica	☐	☐
E. Coli	☐	☐
Erisipela	☐	☐
Hemofilia	☐	☐
Leptospirosis	☐	☐
Neumonía micoplásmica .	☐	☐
Parvovirus	☐	☐
Fiebre porcina	☐	☐
TGE	☐	☐
Gastroenteritis transmisible	☐	☐

(a) Dónde compra Ud. sus vacunas? (por favor indique)

- ☐ De compañía **internacional** biológica
- ☐ De compañía **nacional** biológica
- ☐ De médicos veterinarios
- ☐ Las fabricamos
- ☐ No usamos
- ☐ Otra _____

27. Quién decidió el tipo y marca de productos sanitarios que se compraron para sus cerdos en 1981? (por favor indique)

- ☐ Propietario
- ☐ Administrador de la granja
- ☐ Médico veterinario
- ☐ Otro (por favor especifique) _____
- ☐ No usamos ninguno

28. Cuáles de los siguientes aparatos para ambientar sus edificios porcinos usa Ud.? (por favor indique)

- ☐ Paladeras para refrescar
- ☐ Ventilación eléctrica/abanicos
- ☐ Sistema para ahorrar calor y de reutilización
- ☐ Enfriadores de evaporación
- ☐ Productos para el control de moscas
- ☐ Ninguno de los mencionados

Por favor volte a la página de atrás

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Por favor regrese este cuestionario aún cuando no haya contestado todo.

29. Por favor indique cada uno de los siguientes tipos de equipo que tiene.
- ☐ Generador eléctrico
- ☐ Alarma para cuando no hay electricidad
- ☐ Alarma contra incendio
- ☐ Incinerador
- ☐ Transportador de ganado hidráulico
- ☐ Pala cargadora mecánica
- ☐ Cargador antiderrapante
- ☐ Esparcidor de estiercol, tipo portador de bandas
- ☐ Esparcidor de estiercol, tipo tanque, abierto o cerrado
- ☐ Bomba para el estiercol, líquido
- ☐ Cerca eléctrica
- ☐ Ninguno de los mencionados

30. Cuáles de los artículos que usa en su operación porcina—o parte de ellos—fueron fabricados **fuera** de su país? (por favor indique todos los que correspondan)
- ☐ Viviendas porcinas (cochiqueras, parideras, etc)
- ☐ Equipo
- ☐ Cerdos reproductores
- ☐ Productos sanitarios
- ☐ Alimentos—dietas completas o concentrados
- ☐ Ninguno de los mencionados

31. Asistió Ud. o su administrador ganadero a algún curso de entrenamiento porcino en 1981?
☐ Si ☐ No

32. Tiene Ud. algún grado o diploma de una escuela o academia agricultural?
☐ Si ☐ No

33. Usa Ud. en el presente o piensa usar en los próximos dos años, un sistema computarizado para el registro de su ganado? (por favor indique)
- ☐ Ahora uso
- ☐ Pienso usar en los próximos dos años
- ☐ No uso, ni pienso usar uno
- ☐ Otro _____

34. Ud. o su compañía muele y mezcla el alimento? ☐ Si ☐ No
Si contesta "si" . . .

(a) Es su molino estacionario o portatil? (por favor indique)
- ☐ Portatil
- ☐ Estacionario—en la granja
- ☐ Estacionario—molino central grande

(b) Como cuánto alimento se muele y mezcla en ese lugar **semanalmente**?
aproximadamente _____ kilogramos

(c) Cuáles de los siguientes equipos usa para hacer el alimento?
- ☐ Secador de semilla/grano
- ☐ Molino de martillo
- ☐ Molino de rodillo
- ☐ Molino para pelletizar
- ☐ Premezcladora
- ☐ Revolvedora vertical para batidas
- ☐ Revolvedora de batidas continuas
- ☐ Mezcladora de melaza
- ☐ Ninguno de los mencionados

(d) Qué tipo (s) de alimento hace su molino? (por favor indique todo lo que corresponda)
- ☐ Alimento porcino
- ☐ Alimento vacuno
- ☐ Alimento avícola
- ☐ Otro

35. Si Ud. o su compañía operan una planta de sacrificio (rastro) . . .

(a) Cuántas cabezas de ganado porcino procesa su planta en ocho horas?
_____ cabezas

(b) Cuáles de los siguientes productos de puerco se preparan en su planta de sacrificio? (por favor indique)
- ☐ Carne de puerco en canal
- ☐ Tocino
- ☐ Jamón ahumado
- ☐ Chicharrón
- ☐ Carnes frías
- ☐ Chorizo (embutidos)
- ☐ Salchicha
- ☐ Otros _____

(c) Qué equipo (s) de los que mencionamos abajo tiene en su planta de sacrificio porcino? (por favor indique lo que corresponda)
- ☐ Escaldadora
- ☐ Evisceradora automática
- ☐ Descueradora
- ☐ Separadora de carne y hueso
- ☐ Moledora/cortadora
- ☐ Cuarto para ahumar
- ☐ Horno
- ☐ Tanque de salmuera
- ☐ Inyector de salmuera
- ☐ Mezcladora/revolvedora
- ☐ Autoclave
- ☐ Freidor de gordo
- ☐ Equipo llenador
- ☐ Enfriador
- ☐ Congelador
- ☐ Máquina para hacer hielo
- ☐ Ninguno de los mencionados

Gracias por regresarnos este cuestionario pronto. Agradecemos su interés en INDUSTRIA PORCINA y estoy seguro que esta información nos ayudará a hacerla aún más valiosa para Ud.

Robert Rosa, Editor

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